

Chapter 23 Roots, Stems, and Leaves

Section Review 23-4

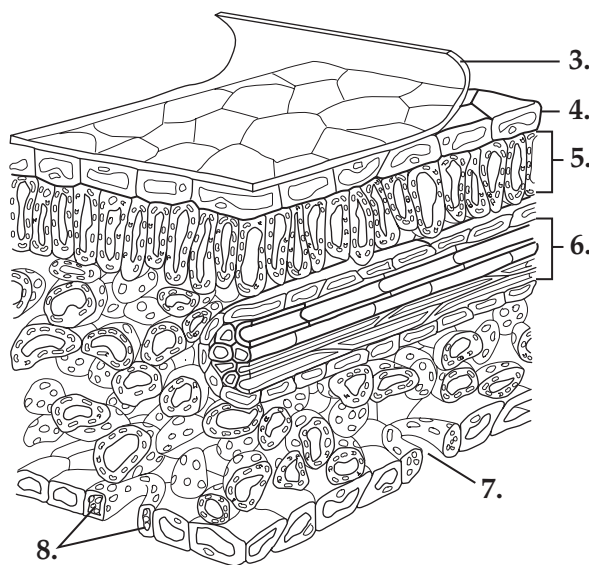
Reviewing Key Concepts

Short Answer *On the lines provided, answer the following sentences.*

1. How is the structure of a leaf optimized to collect sunlight and carry out photosynthesis?

2. What is the function of guard cells in regulating gas exchange in a leaf?

Identifying Structures *On the lines provided, identify the following structures of the cross section of a leaf: guard cells, cuticle, epidermis, stoma, palisade mesophyll, and vein.*



3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Reviewing Key Skills

9. **Applying Concepts** What substance is lost from plants during the process of transpiration?

10. **Inferring** How might the rate of photosynthesis be affected by (1) increasing the surface area of a leaf, and (2) increasing its thickness?
